

# Alireza R Baghbanan

## List of Publications by Year in descending order

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35  
papers

1,016  
citations

567144

15  
h-index

434063

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photogrammetric Method to Determine Physical Aperture and Roughness of a Rock Fracture. <i>Sensors</i> , 2022, 22, 4165.	2.1	10
2	Study of the effect of drill bits hardness, drilling machine operating parameters and rock mechanical parameters on noise level in hard rock drilling process. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 167, 108447.	2.5	4
3	Variable Amplitude Fatigue Life Prediction of Rock Samples Under Completely Reversed Loading. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 1951-1962.	0.8	10
4	Obtaining the strength parameters of concrete using drilling data. <i>Journal of Building Engineering</i> , 2021, 38, 102181.	1.6	4
5	Photogrammetric Prediction of Rock Fracture Properties and Validation with Metric Shear Tests. <i>Geosciences (Switzerland)</i> , 2021, 11, 293.	1.0	5
6	Pumping Schedule Optimization in Acid Fracturing Treatment by Unified Fracture Design. <i>Energies</i> , 2021, 14, 8185.	1.6	0
7	Investigation of wear resistance of drill bits with WC, Diamond-DLC, and TiAlSi coatings with respect to mechanical properties of rock. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 87, 105113.	1.7	12
8	Static and dynamic analysis on slope stability using a DFN-DEM approach on the right abutment of the Karun 4 dam. <i>Earthquake Engineering and Engineering Vibration</i> , 2020, 19, 937-951.	1.1	5
9	Fracture mechanism simulation of inhomogeneous anisotropic rocks by extended finite element method. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 104, 102359.	2.1	24
10	An analytical model for estimating rock strength parameters from small-scale drilling data. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019, 11, 135-145.	3.7	23
11	Modelling of Flow-Induced Shear Coupling Process in Rough Rock Fractures Using Three-Dimensional Finite Volume Approach. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4693-4713.	2.6	10
12	Investigating the deformability of grouted rock mass under static and dynamic loading conditions. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 4549-4566.	1.6	7
13	Evaluating modes I, II, and mixed mode I-II fracture toughnesses of crystalline rocks using discrete element method. <i>Particulate Science and Technology</i> , 2019, 37, 1-9.	1.1	7
14	The Effect of Loading Frequency on Fatigue Life of Green onyx under Fully Reversed Loading. <i>Experimental Techniques</i> , 2018, 42, 105-113.	0.9	6
15	Estimating rock strength parameters using drilling data. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 104, 45-52.	2.6	49
16	The etching and hydraulic conductivity of acidized rough fractures. <i>Journal of Petroleum Science and Engineering</i> , 2018, 166, 704-717.	2.1	53
17	Chemically dependent mechanical properties of natural andesite rock fractures. <i>Canadian Geotechnical Journal</i> , 2018, 55, 881-893.	1.4	17
18	Numerical determination of deformability and strength of 3D fractured rock mass. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 110, 246-256.	2.6	34

#	ARTICLE	IF	CITATIONS
19	Effect of coupled triaxial stress-perforation on fracture mechanism and acoustic wave velocity of limestone. <i>Journal of Petroleum Science and Engineering</i> , 2018, 170, 409-421.	2.1	4
20	Stress-Dependent Perforation in Carbonate Rocks: An Experimental Study. <i>SPE Drilling and Completion</i> , 2018, 33, 209-219.	0.9	1
21	Fatigue life prediction of rocks based on a new Bi-linear damage model. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 106, 20-29.	2.6	11
22	Investigating of chemical effects on rock fracturing using extended finite element method. <i>Theoretical and Applied Fracture Mechanics</i> , 2017, 89, 110-126.	2.1	26
23	Prediction of fracture trajectory in anisotropic rocks using modified maximum tangential stress criterion. <i>Computers and Geotechnics</i> , 2017, 92, 108-120.	2.3	20
24	Effect of seismic waves on the hydro-mechanical properties of fractured rock masses. <i>Earthquake Engineering and Engineering Vibration</i> , 2017, 16, 525-536.	1.1	15
25	Evaluating Fatigue in Crystalline Intact Rocks under Completely Reversed Loading. <i>Geotechnical Testing Journal</i> , 2017, 40, 789-797.	0.5	3
26	Fracture propagation in a cracked semicircular bend specimen under mixed mode loading using extended finite element method. <i>Arabian Journal of Geosciences</i> , 2015, 8, 9635-9646.	0.6	19
27	The effect of fracture patterns on penetration rate of TBM in fractured rock mass using probabilistic numerical approach. <i>Arabian Journal of Geosciences</i> , 2014, 7, 5321-5331.	0.6	18
28	Prediction of permeability in dual fracture media by multivariate regression analysis. <i>Journal of Petroleum Science and Engineering</i> , 2014, 120, 194-201.	2.1	10
29	Understanding coupled stress, flow and transport processes in fractured rocks. <i>Geosystem Engineering</i> , 2013, 16, 2-25.	0.7	20
30	Investigation of Grain Size Effects on Micro/Macro-Mechanical Properties of Intact Rock Using Voronoi Elementâ€™s Discrete Element Method Approach. <i>Particulate Science and Technology</i> , 2013, 31, 507-514.	1.1	30
31	Over-consolidation effect on shear behavior of rock joints. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011, 48, 1283-1291.	2.6	27
32	Stress effects on permeability in a fractured rock mass with correlated fracture length and aperture. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 1320-1334.	2.6	258
33	Hydraulic properties of fractured rock masses with correlated fracture length and aperture. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2007, 44, 704-719.	2.6	264
34	Determination of crack initiation and propagation in two disc shaped specimens using the improved maximum tangential stress criterion. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 469.	0.2	8
35	Using effective medium theory to calculate permeability of rock with complex fractures. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 0, , 1-12.	0.9	2